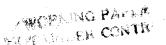
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LOGISTIC FACT BOOK
20 April 1967

Army Declass/Release Instructions On File Declassification/Release Instructions on File



自然 医克莱克氏管

THENCIDETTICE

The purpose of this fact cook is to provide reference data relating to VC/NVA logistic requirements. The information contained in this book was compiled from documents, interrogation reports, FM 101-10, DIA Logistic Briefing, 28 March 1956, and published intelligence documents.

All classes of supplies and type enemy units are referenced except Class III (Fuels and Dibricants). Class III requirements for in-country enemy forces are negligible. The small amount of Class III required is normally procured from in-country sources.

Class II and IV supplies and equipment relate primarily to clothing, equipment, and weapons. There is not enough information available to determine the expenditure rate of other Class II and IV (medical, signal, and engineer) supplies. A factor of .5 lbs per man, per day consumption rate for Class II and IV supplies (except weapons) is used for NVA units. A factor of .1 lbs per man, per day consumption rate for Class II and IV supplies (except weapons) is used for VC units. These factors are based on the DIA Logistic Briefing.

Levels of combat are used primarily as a logistic measure. Information currently available is insufficient to establish with any degree of certainty, the level of combat in which the enemy is currently engaged. It is estimated that the present level of combat is 1 day in 30. The fact book includes requirements for 1 day in 30, 2 days in 30 (1 in 15), and 3 days in 30 (1 day in 10).

Studies are in progress to provide a comprehensive and detailed plan of enemy logistic requirements. It is expected that these studies will provide data on classes of supplies, expenditure rates, and logistic organization which is not available in this fact book.

Computations include an accuracy to 2 and 3 decimal places. This merely reflects an attempt arithmetical accuracy and should not recessarily be construed as an accuracy in actual expenditures.

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DEFINITIONS

Level of Combat

The intensity of combat measured in terms of supply expenditures by class for purposes of computing enemy logistic remainments.

1 days combat

Expenditure by class of supplies as follows:

Class I - Combat ration

Class II & IV - Combat requirement (less wearons)

Class V - besic load

Weapons - FWT factor.

Dependiture of supplies as follows:

Class I - 1 days combat ration, 29 days non-combat ration.

Class II and IV - 1 days combat requirement, 29 days non-combat requirement.

Class $V = \frac{1}{2}$ basic load.

Weapons - 5% FWT

Expenditure of supplies as follows:

Class I - 2 date combat ration, 28 days noncombat rations.

Class II and IV - 2 days combat requirement, 2 days ren-combat requirement.

Class V - 1 basic load

weapons - 61 FwT

1 days combat in 30

2 days combat in 30

(1 in 15)

A

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3 cays combat in 30

Expanditure of supplies as Follows:

Class ! - } days compat ration, 27 days non-co. h : ration.

Class .1 and IV - 3 days combat requirement, 17 days non-combat requirement.

Class V - 1 basic load

Abapons - 7% PVT

Refers to Class V and that amount of ammunition stochpiled within the using unit for each we pon assigned to the unit.

including combat, non-combat issue and supplemental foous.

Supplies and equipment normally issued to the individual including wearons. Also may include certain organizational items.

Fuels and lubricants for all purpos s except aircraft.

Normally includes special man orials and items of equipment as well as additional atoms over and above andividual issue

The enemy probably distinguishes his supplies by the following breakdown:

Rations: (Tree Supplies at 1900 and: (Class I & IV) weapons and for in tion: (Class V, Class II & IV)

POL: (Class III)

The average bulk chart tons of all classes for supply required as a fitting a specified level of chieat

Casto Load

Class I - Rations

¥C⊥ass II

Class III

*Class 1V

dnewy logistic classification

Daily Lupply rate

Solabs I and IV - These classes of supplies are normal. Listed to see a since in most ases to is empired. To see that are the last the listed is supplied to the last the last

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Division equivalent

The equivalent in type units for Class V and weapons requirements

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CLASS I (Rations)

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CLADS II & IV (Jupply & Equipment)

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143. W & 1 16 a.

NVA SCHPLIES AND EQUIPMENT:

- 1. Fon-Combat hequirement 0.5 #/man/day. *
- 2. Combat Requirement 0.5 #/man/day (additional) **
- 3. Requirements:

a.
$$1 \text{ day in } 30$$
: Combat $1 \times 1.0 = 1.0$
Cther $29 \times 0.5 = 14.5$

0.5167 #/man/day

15.5

b.
$$2 \text{ days in } 30$$
: Combat $2 \times 1.0 = 2.0$
Other $28 \times 0.5 = \frac{14.0}{16.0}$

0.533 #/man/day

Other 27 x 0.5 =
$$\frac{3.0}{16.5}$$

0.55 #/man/day

- * # = 1bs
 - .5 #/man/day is based on DIA Logistic Study, 28 March 66.
- ** It is estimated that for each day in combat Class II and IV requirements are doubled.

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Most frequently carried items by the NVA soldier

Uniform, khaki 1 or 2

Pajamas, black 1 or 2

Underwear 2 to 4 sets

cap, cotton

Sandals, rubber 1 pr

Straps, rubber 2

cotton sweater

Nylon tent

Nylon poncho

Belt leather

Rice Belt 2

Hammock

Mosquite net

Rucksack bag 1

Canteen

canteen cover

bowl, metal

Spoon 1

Web belt 1

Canvas pack

Rice bag

Ammo peuch

Medical kit



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Items of equipment sometimes issued to the NVA soldier

Towel

Socks

Knife

Shovel

Blanket

Protective mask

Flashlight

Batterics

Cartridge belt

Boots

Jacket

Shoes

Shorts

Rubber boots

Field coat

Fatigues

Hoe

Lighter

Cooking pan

Salt bag

Kettle

Nachete

Document bag

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NVA MEDICAL (Personal)

ITEM*	AMOUNT	PERIODIC REISSUE
Vitamin B ₁ pills	30–60	as appropriate
Vitamin C pills	30-60	as appropriate
Bandages, cotton rolls	2	as appropriate
Tiger balm	1 bottle	as appropriate
Quinine pills	20-40	as appropriate
Water purification pil	ls 30-6 0	as appropriate
Dysentary pills	20-40	as appropriate
Malaria pills	30-60	as appropriate
Permanganate of potta	ssium 1 bottle	as appropriate
Head ache pills	20–40	as appropriate

^{*} Infiltrators often receive only partial amounts of the above listed medical equipment.

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VC SUEPLIES AND EQUIPMENT:

- 1. Non-Combat Requirement 0.1 #/man/day.
- 2. Combat Requirement 0.1 #/man/day (additional)
- 3. Requirements:

a.
$$1 \text{ day in } 30$$
: Combat $1 \times 0.2 = 0.2$
Other $29 \times 0.1 = \frac{2.9}{3.1}$

0.1033 #/man/day

b.
$$2 \text{ days in } 30$$
: Combat $2 \times 0.2 = 0.4$
Other $28 \times 0.1 = 2.8$

0.1067 #/man/day

c. 3 days in 30: Combat
$$3 \times 0.2 = 0.6$$
Other $27 \times 0.1 = \frac{2.7}{3.3}$

0.1100 #/man/day

Most commonly carried VC equipment

Khaki uniform 1 or 2

Black pajamas 1 or 2

Underwear 2 sets

Sandals (rubber) 1 pr

Rice belt 1

Mosquito net 1

Nylon sheet (poncho/tent) 1

Shorts 1 pr

Hammock 1

Towel 1

Rucksack 1



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Items of equipment sometimes carried by the VC

Sandal straps 1 pr

Leather belt 1

Cotton blanket 1

Shovel 1

Duffle bag 1

Cap or Bamboo helmet 1

Field pack 1

Fatigue uniform 1

Sweater 1

Shirt 1

Canteen 1

Rice bag 1

Cartridge pouch 1

Mosquito bar 1

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VC Equipment Reissue Intervals

Khaki uniform annual

Black pajamas annual

Underwear annual

Hammock every 1 to 3 years

Sweater annual

Mesquite net every 1 to 3 years

Canteen every 1 or 2 years

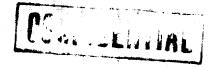
Sandals annual

Plastic nylon sheet amual

Rice belt annual

Towel annual

Items of equipment not listed are replaced as appropriate.



CONFIDENCE.

Weights of items of equipment as determined by CMEC

l ea uniform, khaki		1 lb 12½ oz
l ea uniform, pajama, black		14 3/4 02
2 sets underwear		10½ oz
1 ea hammock		1 1b 7 oz
l ea sweater	÷ ,	9 1 0≅
l ea pack, field	* ************************************	1 1b 9 oz
l ea net, mosquito		11 02
1 ea canteen	\$ 1.00 miles	9 om
1 ea belt, pistol	1 . 1	71 oz
1 pr rubber tire sandals		1 lb 10½ os
1 ea cap, cloth		3 2 oz
2 ea sheet, plastic nylon		2 lb 2½ os
1 ea pouch, ammo		6 oz
1 pr socks		2 1 os
l ea cover, canteen	· .	2 2 oz
2 ea bandolier, rice (rice l	belt)	91 oz
l ea bowl, steel, eating	· · · · · · · · · · · · · · · · · · ·	l , o s
1 sa spoon	*	1 3/4 01
l ea cup, canteen		L oz
1 ea pouch, grenade		7 os
1 ea belt, trousers		2 02
and the state of	**************************************	*



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CLASS V (Ammo)

Class II (Weapons)

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		-

NVA-REGIMENTAL BATTALLON

Nomenclature	Lature	Number Per Battalion	llon.	Weight Per Weapon	Total Weapon Weight		Basic Load	Weight Rd	Weight Load	Total Ammo weigh	Total weight	
											ed F	
K-54	Pistol			1.9	77.		777	0.0243	0,583	-	1332	7
AK-47	SMG	123		87°6	2,360.2		38	0.0361	3.61	} 3	1003	
SAS RPD	AR	27		15.6	421.2		009	0.0361	21.66	4.0	ase 78:	
RP-46	SWI	6		28.7	258.3	A	82.	050.0	4.0 32.0	· \ ₩	20.798 20.798	The same of
RFG-2	AT S	27		123.0	369.0	ve.	, S	7.28	145.6	7	002	darket
75.00	RR.	ر برس		113.5	430.5		20	20.35	7,00	Ä,	75. 75. 75. 75.	. 1
SGM	HMG	ر ا س	Z.	30.42	61.3		006	0,050	0.54	7 2	1106.0911	
Grenades	93					•	3	•	•	7	357.3 <u>∩</u>	
TOTAL		264			5,312.2						A-R	4
SHOLT TOWS	TONS	, ,			2,6561		(wt)	c) Basic Load	pe	1 1 3	DP7	
		ally:						ā 			8802	4
											214	
		- 10 c				ŧ	#				P	#
			e Solution				2 M			.*	00	基础
	421. : 4					9 2	· 2				200 ⁻	
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Nomenclature	Number Fer Battalion	Weight Per weapon	Total Weapon Weignt	Basic Load	weight Rd	weight Load	Total Ammo Weight
	19	0 [36.1	27.	6 760 0	667 0	
AK-47 SMG	67	87.6	7.597	300	0.0361	0,000 0,000 0,000	17°11
	82	67.8	6969	100	0.0361	3.61	20 G
	·••	0.909	3,636.0	50	35.05	701.0	7.206.0
	12	123.0	1,476.0	20	80.2	345.6	1,747.0
TUTAL	168		9.808.6				6,791.c
SHORT TONS			3.1548		(wt) Basic Load	! ! !	-3.3955
							•

NVA-MORTAR BATTALION

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ATTALION	
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RECOLLIESS RI	
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NVA	

Nomenclature	Number Fer Battalion	Weight Per Weapon	Total Weapon Weight	Basic Load	Weight Per Ad	Weight Fer Load	Total Ammo Weight Devolution
K-54 Pistol AK-47 SMG SK5 Rifle 75mm RR	19 31 106 18	1.9 9.48 8.49 143.5	36.1 293.9 916.9 2,583.0	24 300 100 20	0.0243 0.0361 0.0361 20.35	0.583 10.83 3.61 407.0	elease 2002/ 111 255 2000/256
TOTAL SHORT TONS	176		3,829.9	(Mt) Basic Load	road r	1	/08/16 : C 71/200 6 1 03/14 1

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Total Ammo Weight	11, 498, 259, 5,569,	6,531.	5.1556					
t D	88 89 90		1		*		*	
welght Fer Load	2.583 10.83 3.61 3.9.0		1				1 12 18 18 18 18 18 18 18 18 18 18 18 18 18	
	S - -		1			基础	t teagues. 45 81 list 14 86	
weight Per Ed	0.0243 0.0361 0.309		og d			***		
			(wt) Basic Load		•	A va	- 1 March 1 Ma	
Basic	300,1000,1000		(Wt) B			-	÷ •	
	4				4	· · · · · · · · · · · · · · · · · · ·		1
Total Weapon Weight	36.1 436.1 611.3 6,255.0	7,338.5	3.6693	•		₩		X .
o ≱ ≱	, . ,	. 7,	m ·				1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
on on	9 448 5							- 10 mg
Weight Per Weapon	347				ā Č			
							# # # # # # # # # # # # # # # # # # #	
Number Fer Eattalion	2.000	10					100 Marie 100 Ma	
Num Fer Bat	19 72 72 18	155				# <u>*</u>	2 6 5 8 5 2 9 5 2 1 5 2 1 5 2 1 5 3 1 5	
ф	Fistol SwG Rifle				•	45 - 3 ²	ign bilan stade out	**************************************
Nomenclature	•	3	SHOKE TONS		2 d 3 d 5 d	1 (1) (1) (1) (2) (2) (2) (3) (4) (4) (4)	新 2番号 で 1等に 4番号 1447 - 4番号	4 4
omen	K-54 AK-47 SKS 12.7mm		2019				Target in	

NVA - AAA BATTALION

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	**		토 · · · ·

*						į	
A Nomenclature	Number Per Battalion	Weight Fer Weapon	Total Weight	Basic Tasic I	Weight Per Rd	Meirht Fer Load	Armo Weight (Total)
Legense SKS AT Rifle AR RIFLE	23 114 254 27 27 18 27 27 3 3 456	1.9 9.48 8.49 15.6 6.3 78.3 44.5 123.0 30.42	43.7 1,080.7 2,156.5 421.2 113.4 172.2 234.9 267.9 246.0 91.3	24 300 100 600 800 20 20 20 20 20 20 20 20 20 20 20 20 2	0.0243 0.0361 0.0361 4.0 0.050 0.05 0.05	0.583 10.83 3.61 21.66 3.61 114.0 66.0 145.6	13.4 1,234.6 916.9 584.8 576.0 240.0 342.0 396.0 291.2 135.0 790.0
Stor. 1-0:5			2.4135	(Wt)Basic Load	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,7599

w/new ramily

VC MAIN FORCE BATTALLON

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			81	VC MORTAR BATTALION - 82mm	ALION - 82mm			
Nomenclature	lature	Number Per Battalion	Weight Per Weapon	Total Weapon Weight	Basic Load	Weight Per Nd	Weight Fer Load	Total Ammo Weight
82m K-54 AK-47 SKS	Mort Fistol SMG Rifle	12 15 33 64	123.0 1.9 9.48 8.49	1,476.0 28.5 312.8 543.4	20 24 300 100	7.28 0.0243 0.0361 0.0361	145.6 0.583 10.83	1,747.2 8.2 357.4 357.4
TOI	TOTAL	124		2,360.7				2,344.3
K-50 K-44	SMG	33	8.8	273.9	175	0.0243	4.25	140.3
TOTAL	ML	124		2,348.0				2,216.2
AVS TOTAL	T Y_	124	· · ·	2,354.4				2,280.3
SMOT THOUS	SMO			1,1772	(Wt) Basic Load	Load	† † † †	- 1.1401

VC - RECOILLESS RIFLS BATTALLON

Vonenclature parture	Number Fer Battalion	Weight Fer Weapon	Total Werpon	Basic	weight Per Rd	Weight Fer Load	Total Ammo Seight
		א היור	677.0	OC	30 00	\ \tag{2}	0 00/
5年 第	ťω	78.37	626.4	50 2 0 2	5.7	0.707	0.00
	<u>7</u> 2	1.9	78.87	24	0.0243	0.583	t tu
~	ದ್ಯ	87.6	199.1	300	0.0361	10.83	227.4
SAS ALLE	47.	67.3	628.3	100	0,0361	हा इ. इ.	267.1
7VIO.L	122		2,056.2	4			5,043.2
K-50 SMG / K-44 Hifle	21, 74,	8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	174.3	175 100	0.0243	4.25	89.3
TCTAL	122		2,061.7				3,008.0
S84VE PUPAL	122		2,058.9				3,025.6
SHORT TONS			3670.1	.(Wt) Basic Load	road	1	1.5128

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Nomenclature	Number Per Battalion	Weight Per Wearon	Total Weapon Weight	Basic Load	weight Per Rd	Weight Fer Load	Total Amno Weight
12.7mm HMG CK-54 Fistol AK-47 SMG SKS Rifle	55 J. L. S	83.5 1.9 9.48 8.49	1,002.0 28.5 293.9 424.5	1,000 24, 300 100	0.309 0.0243 0.0361 0.0361	309.0 0.563 10.83 3.61	3,708.0 F.7 335.7 180.5
TOTAL	108		1,748.9				4,232,9
NK-44 Fifle	31	η σ ω ω	257.3	175	0.0243	4.25	131.8 250.0
TOTAL	108		1,732.8				4,098.5
AVS T(TAL	108		1,740.8				4,165.7
SELICIT TONS			7028.0	(Wt) Basic Load	Load	1 1 1 1	-2.0629

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	. Approve	ed For Release 2002/08/16 : CIA-RDP78S02\44\R000200130006-9	To prove a galactic management and the second
•	Total Amno Weight	2.9 110.5 1,010.0 1,010.0 387.0 387.0 57.0 6.1.0 6.1.0 553.0 553.0 553.0	The state of the s
	weight Fer Load	0.583 4.25 5.0 20.0 32.0 40.0 111.0 66.0 45.0 553.0	The second secon
	Weight Per Rd	0.0243 0.0243 0.05 0.05 1.0 0.05 0.05 0.79	
NOT		Sasic Los	The same of the sa
FORCE BATTALLON	Basic Load		
- IOCAL	Total Weight	215.8 1,797.8 591.8 75.6 172.2 469.8 267.0 396.0 182.5 4,178.0	
<u>X</u>	weight Rer weapon	26.9 26.9 28.7 78.3 30.42 30.42	
	Number Per Battalion		The state of the s
		Fifie 222 AR 222	
	Nomenclature	K-54 K-54 K-54 K-54 N-44 DIM NF-46 NRF-46 SC-43 Grenades COTAL CHAL TONS	

Bettalion Weapon Weight Load Rd Load 1 7 1.9 13.3 24 0.0243 0.583 12 2.4.4 300 0.0361 10.29 13.49 12.8 1.00 0.0361 11.0 2 3.49 12.8 1.00 0.0361 11.0 2 7 1.9 8 4.0 2 7.1 12.3 24 12.5 20 5.7 11.0 2 78.3 23.4 66.6 2 20 7.1 12.3 2.0 2 7.15 1.10 2 67 11,23 3.9 (Wt) Basic Load0		Num	Number	Weight	Total	Basic	weight Fer	eight	Total ammo
Fistol 7 1.9 13.3 24 0.0242 0.583 SMG 30 9.48 2P4.4 300 0.0364 16.23 SMT 3	olomenclature po po	Bat	talion	Weapon	Weight	Load	Rd	Load	deignt
SMG 30 9.48 224.4 300 0.0361 11.75 Biffle 18 6.3 12.9 18 4.0 11.0 IN 78.3 234.9 20 5.7 11.0 IN 78.3 234.9 20 5.7 11.0 IN 78.3 234.9 20 5.7 11.0 IN 7.15 1.75 1.75 1.75 IN 7.15 1.75 1.75 IN 7.15	K-54 Fistol		<i>L</i>	1.9	13.3	777	0.0243	0.583	T• 7
Hirle 18 5.49 152.8 10 0.031 5.20 Hir 3 6.3 12.9 8 4.0 5.20 Hir 3 78.3 234.9 20 5.7 114.0 Hort 2 44.5 132.5 20 5.7 (66.0 Hort 3 132.0 550.0 5.7 5.0 Hort 3 132.0 550.0 0.79 5.70 Hort 3 0.017 (Wt) Basic Load0.	DMS 24-Y		õ	84.6	254.4	 300 300 300 300 300 300 300 300 300	1980.0	اري الايدار الايدار	6.424
Fig. 5 78.3 234.9 20 5.7 114.0 66.0 3.3 66.0 3.3 66.0 3.3 66.0 3.3 66.0 3.3 66.0 500 0.79 5.0 5.0 0.79 5.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	KE Rifle		oj m	67°59	157.8 12.9	7 20 ∞	10.00 Tech	32.0	36.0
Mort 3 44.5 132.5 20 3.3 66.5 Mort 3 132.0 596.0 50 0.79 55.0 1,233.9 Mr. Basic Load	J) (1)	78.3	234.9	20	5.7	11,0	342.0
500 0.79 595.0 1.233.9			107 M	132.0	137.5	S S	3.3	0.99 0.3.00	198.0 198.0
WS (wt) Basic Load ————————————————————————————————————	renade	· · · · · · · · · · · · · · · · · · ·	`	•		500	62.0	345.0	395.0
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	SHOLL TONS				0.017		Load	1 ! !	-0.927
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Approved F	or e ease 2002/08	3/16 : CIA-
Total Aumo Meight	200.00 200.00 200.00 30.00 66.00 110.00	636.5 0,3185
eignt Fer Load	4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	1 1 1 1
weight Fer Ed	0.0243 0.05 0.05 0.05 0.05 0.079	pec
Basic Load	175 100 300 600 20 20 150	(Wt) Basic Load-
rotal Weapon Weight	199.2 356.0 215.2 28.6 44.5	843.5 C.4218
weight Fer Weapon	8.3 26.9 3.3.4 5.4	
Number Fer Battalion	404 844	74
Nomenclature	K-50 SWG R-44 Rifle REW AR AR AR See See See See See See See See See See	70101710190 CHONA 11010101010101010101010101010101010101

Approved For Release 2002/08/16: CIA-RDP78S02149R000200130006-9

Approved For Lease 2002/08/16 : CIA-RDP78S0214 Pc00200130006-9

WEAPONE REPLACEMENT AND ASMUNITION HYPERDITUR

Approved For Palease 2002/08/16: CIA-RDP78S0214 Pc00200130006-9

FOR LACIMENT AND EXPENSITURE:

1. NVA Battalion:

a. Replacement:

1 day in 30
$$\frac{2.6561 \times 0.05}{30} = \frac{0.0044^{T}/D}{30}$$
2 days in 30
$$\frac{2.6561 \times 0.06}{30} = \frac{0.0053^{T}/D}{30}$$
3 days in 30
$$\frac{2.6561 \times 0.07}{30} = \frac{0.0062^{T}/D}{30}$$

b. Ammunition Expenditure/day of combat

Formula:

Basic Load of Amme =
$$T/D$$
 $\frac{3.5287}{2x30} = 0.0588^{T}/D$ for 1 day in 30

2. NVA Mortar Battalion:

a. Replacement:

1 day in 30
$$\frac{3.1548 \times 0.05}{30} = \frac{0.0053^{T}}{D}$$
2 days in 30
$$\frac{3.1548 \times 0.06}{30} = \frac{0.0063^{T}}{D}$$
3 days in 30
$$\frac{3.1548 \times 0.07}{30} = \frac{0.0074^{T}}{D}$$

b. Ammunition expenditure/day in combat

$$\frac{3.3955}{2x30} = \frac{0.0566^{\text{T}}/\text{D}}{1}$$

Approved For Release 2002/08/16: CIA-RDP78S02149R600200130006-9

3. Wa kecoilless hifle Battalion:

a. Replacement:

$$\frac{1.9149 \times 0.05}{30} = 0.0032^{\text{T}}/\text{D}$$

$$\frac{1.9149 \times 0.07}{30} = \frac{0.0045}{4}$$

b. Ammunition Expenditure/day of combat

$$\frac{4.031L}{2\times30} = 0.0672$$

4. NVA AAA Battalion:

a. heplacement:

$$\frac{3.6693 \times 0.05}{30} = \frac{0.0061^{\text{T}}}{D}$$

$$\frac{3.6693 \times 0.06}{30} = \frac{0.0073^{\text{T}/D}}{2000}$$

$$\frac{3.6693 \times 0.07}{30} = 0.0086^{\text{T}} / D$$

b. Ammunition expanditure/day of combat

$$\frac{3.1656}{2x30} = 0.0528^{\text{T}}/_{\text{D}}$$

Approved For Jelease 2002/08/16 : CIA-RDP78S021 19/1000200130006-9

5. VC Main Force Battalion:

a. keplacement:

$$\frac{2.4866 \times 0.05}{30} = \frac{0.0041 \text{ T/D}}{}$$

$$\frac{2.4866 \times 0.06}{30} = \frac{0.0050 \text{ T/D}}{30}$$

$$\frac{2.4866 \times 0.07}{30} = \frac{0.0058 \text{ T/D}}{30}$$

b. Annualtion expensiture/day of combat

$$\frac{2.6482}{2\times30} = \frac{0.0441}{2\times30}$$

6. VC Mortar Battalion:

a. Replacement

$$\frac{1.1772 \times 0.05}{30} = \frac{\text{c.0020 T/D}}{}$$

$$\frac{1.1772 \times 0.07}{30} = \frac{0.0027 \text{ T/D}}{30}$$

b. Ammunition expenditure/day of combat

Approved For Release 2002/08/16 : GIA-RDP 28 02149R000200130006-9

7. VC Recoilless Rifle Battalion:

a. Replacement:

$$\frac{1.0295 \times 0.05}{30} = \frac{0.0017 \text{ T/D}}{}$$

$$\frac{1.0295 \times 0.06}{30} = \frac{0.0021 \text{ T/D}}{}$$

$$\frac{1.0295 \times 0.07}{30} = \frac{0.0024 \text{ T/D}}{}$$

b. Ammunition Expenditure/day of combat

$$\frac{1.5128}{2x30} = \frac{0.0252 \text{ T/D}}{2}$$

8. VC AAA Battalion:

a. Replacement:

$$0.8704 \times 0.05 = 0.0015 \text{ T/D}$$

$$\frac{0.8704 \times 0.06}{30} = \frac{0.001}{30}$$

$$\frac{0.8704 \times 0.07}{30} = \frac{0.0020 \text{ T/D}}{30}$$

b. Ammunition expenditure/day of combat

$$\frac{2.0829}{2x30} = \frac{0.0347 \text{ T/D}}{2}$$

VC Local Force Battalion:

Replacement:

Ammunition expenditure/day of combat

$$\frac{2.2597}{2x30} = \frac{0.0376 \text{ T/D}}{2}$$

Sapper Battalion: 10.

Replacement:

Replacement:
1 day in 30
$$\frac{0.617 \times 0.05}{30} = \frac{0.0010 \text{ T/D}}{30}$$

2 days in 30 $\frac{0.617 \times 0.06}{30} = \frac{0.0012 \text{ T/D}}{30}$
3 days in 30 $\frac{0.617 \times 0.07}{30} = \frac{0.0014 \text{ T/D}}{30}$

Ammunition expenditure/day of combat

$$\frac{0.927}{2x30} = \frac{0.0155 \text{ T/D}}{2}$$



ll. 100 Man Slice - Company, Platoon, Irregular:

a. Replacement:

1 day in 30
$$\frac{0.4218 \times 0.05}{30} = \frac{0.0007 \text{ T/I}}{30}$$

2 days in 30
$$\frac{0.4218 \times 0.06}{30} = \frac{0.0008 \text{ T/D}}{30}$$

3 days in 30
$$\frac{0.4218 \times 0.07}{30} = \frac{0.0010 \text{ T/D}}{30}$$

b. Ammunition expenditure/day of combat

$$\frac{0.3183}{2x30} = \frac{0.0053 \text{ T/D}}{2}$$

NVA DIVISION

- 1. 12,000 men
- 2. <u>Division Equivalent*</u> 15 Inf Bn
 1 Mtr Bn
 1 RR Bn
 1 AAA Bn
- 4. Weapons Replacement (short tons per day)
 - 1 day in 30 5%

$$\frac{48.6105 \times 0.05}{30} = \frac{0.0802 \text{ T/D}}{30}$$

2 days in 30 - 6%
$$48.6105 \times 0.06 = 0.0962 \text{ T/D}$$

3 days in 30 - 7%
$$\frac{48.6105 \times 0.07}{30} = \frac{0.1122 \text{ T/D}}{30}$$

5. Ammunition Expenditure/day of combat (short tons per day)

$$\frac{63.5230}{2x30} = \frac{1.0587 \text{ T/D}}{2x30}$$

* Division Equivalent = The equivalent in type units for Class V and weapons requirements

VC DIVISION

- 1. 10,500 men
- 2. <u>Division Equivalent*</u> 15 Inf Bn 1 Mtr Bn 1 RR Bn 1 AAA Bn
- 3. Weight of Weapons (short tons) 15 x 2.4866 = 37.2990 1 x 1.1772 = 1.1772 1 x 1.0295 = 1.0295 1 x 0.8704 = $\frac{0.8704}{40.3761}$ short tons
- 4. Weapons replacement (short tons per day)
 - 1 day in 30 5%

$$\frac{40.3761 \times 0.05}{30} = \frac{0.0673 \text{ T/D}}{30}$$

2 days in 30 - 6%
$$\frac{40.3761 \times 0.06}{30} = \frac{0.0808 \text{ T/D}}{30}$$

3 days in 30 - 7%
$$\frac{40.3761 \times 0.07}{30} = \frac{0.0942 \text{ T/D}}{30}$$

5. Ammunition expenditure/day of combat (short tons per day)

15.
$$\times$$
 2.6482 = 39.7230
1 \times 1.1401 = 1.1401
1 \times 1.5128 = 1.5128
1 \times 2.0892 = 2.0829
44.4588

$$\frac{44.4588}{2x30} = \frac{0.7410 \text{ T/D}}{2x30}$$

* Division Equivalent - the equivalent in type units for Class V and weapons requirements

REQUIREMENTS BY CLASS AND TYPE UNITS

REQUIREMENTS

NVA Division - 12,000 Men			
	1 in 30	2 in 30	3 in 30
ਰੌood	11.6880	11.7420	11.7900
ਤquipment	3.1000	3.2000	3.3000
Weapons	0.0842	0.1011	0.1179
Ammunition	1.1015	2.2030	3.3045
TOTAL (short tons daily) (Short tons less Food)	15.9737	17.2461	18.5124
	4.2857	5.5041	6.7224
NVA Infantry Battalion - 6	600 Men		•
	<u>l in 30</u>	2 in 30	3 in 30
Food	0.5844	0.5871	0.5895
Equipment	0.1550	0.1600	0.1650
Weapons	0.0044	0.0053	0.0062
Ammunition	0.0588	0.1176	0.1764
TOTAL(short tons daily) (Short tons less Food)	0.8026	0.8700	0.9371
	0.2182	0.2829	0.3476
NVA Infantry Regiment - 2	900 Men		÷
•	<u>l in 30</u>	2 in 30	3 in 30
Food	2.3376	2.3484	2.3580
Equipment	0.6200	0.6400	0.6600
Weapons	0.0176	0.0212	0.0248
Ammunition	0.2352	0.4704	0.7056
TOTAL (short tons daily) (Short tons less food)	3.2104	3.4800	3.7484
	0.8728	1.1316	1.3904

NVA	Mortar	Battalion -	400 Men

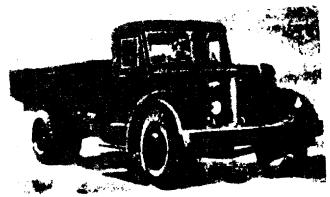
11/11/11/11/02			
	1 in 30	2 in 30	3 in 30
Food	0.3896	0.3914	0.3930
Equipment	0.1033	0.1067	0.1100
weapons	0.0053	0.0063	0.0074
Ammunition	0.0566	0.1132	0.1698
TOTAL(short tons daily) (Short tons less Food)	0.5548	0.6176	0.6802
	0.1652	0.2262	0.2872
NVA Recoilless Rifle Batt	calion - 400	Men	
	1 in 30	2 in 30	3 in 30
Food	0.3896	0.3914	0.3930
Equipment	0.1033	0.1067	0.1100
Weapons	0.0032	0.0038	0.0045
Ammunition	0.0672	0.1344	0.2016
TOTAL(short tons daily) (Short tons less Food)	0.5633	0.6363	0.7091
	0.1737	0.2449	0.3161
NVA AAA Battalion - 400	<u>Men</u>		
	<u>l in 30</u>	2 in 30	3 in 30
Food	0.3896	0.3914	0.3930
Equipment	0.1033	0.1067	0.1100
Weapons	0.0061	0.0073	0.0086
Ammunition	0.0528	0.1056	0.1584
TOTAL(short tons daily) (Short tons less Food)	0.5518	0.6110	0.6700
	0.1622	0.2196	0.2770

VC Division - 10,500 Men							
	1 in 30	2 in 30	3 in 30				
Food Equipment Weapons Ammunition	10.2270 0.5423 0.0699 0.7689	10.2740 0.5601 0.0839 1.5378	10.3160 0.5775 0.0979 2.3067				
TOTAL (short tons daily) (Short tons less Food)	1.6081	12.4558 2.1818	13.2981 2.9821				
VC Main Force Infantry Battalion - 500 Men							
	1 in 30	2 in 30	3 in 30				
Food Equipment Weapons Ammunition	0.4870 0.0258 0.0041 0.0441	0.4893 0.0267 0.0050 0.0882	0.4913 0.0275 0.0058 0.1323				
TOTAL(short tons daily) (Short tons less Food)	0.5610 0.0740	0.6092 0.1198	0.6569 0.1656				
VC Main Force Infantry	Regiment -	2,500 Men					
	1 in 30	2 in 30	3 in 30				
Food Equipment Weapons Ammunition	1.9480 0.1033 0.0164 0.1764	1.9572 0.1067 0.0200 0.3528	1.9652 0.1100 0.0232 0.5292				
TOTAL (short tons daily (Short tons less Food)	0.2961	2.4367 0.4795	0.6624				

VC Mortar Battalion - 250	Men						
	<u>l in 30</u>	2 in 30	<u>3 in 30</u>				
Food Equipment Weapons Ammunition	0.2435 0.0129 0.0020 0.0190	0.2446 0.0133 0.0024 0.0380	0.2456 0.0138 0.0027 0.0570				
TOTAL(Short tons daily) (Short tons less Food)	0.2774 0.0339	0.2983 0.0537	0.3191 0.0735				
VC Recoilless Rifle Battalion - 250 Men							
	1 in 30	2 in 30	3 in 30				
Food Equipment Weapons Ammunition	0.2435 0.0129 0.0017 0.0252	0.2446 0.0133 0.0021 0.0504	0.2456 0.0138 0.0024 0.0756				
TOTAL (Short tons daily) (Short tons less Food)	0.2833 0.0398	0.3104 0.0658	0.3374 0.0918				
VC AAA Battalion - 250 Mc	<u>en</u>						
	<u>l in 30</u>	2 in 30	3 in 30				
Food Equipment Weapons Ammunition	0.2435 0.0129 0.0015 0.0347	0.2446 0.0133 0.0017 <u>0.0694</u>	0.2456 0.0138 0.0020 0.1041				
TOTAL (Short tons daily) (Short tons less Food)	0.2926 0.0491	0.3290 0.0844	0.3655 0.1199				

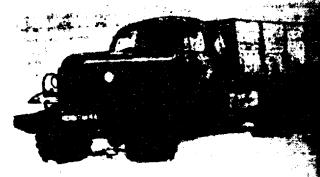
VC Local Force Battalion - 4	20 Men		
	1 in 30	2 in 30	3 in 30
Food Equipment Weapons Ammunition	0.4091 0.0217 0.0035 0.0376	0.4108 0.0224 0.0042 0.0752	0.4127 0.0231 0.0049 0.1108
TOTAL (Short tons daily) (Short tons less Food)	0.4719 0.0628	0.5126 0.1018	0.5515 0.1388
SAPPER Battalion - 500 Men			
	1 in 30	2 in 30	3 in 30
Food Equipment Weapons Ammunition	0.4870 0.0258 0.0010 0.0155	0.4893 0.0267 0.0012 0.0310	0.4913 0.0275 0.0014 0.0465
TOTAL (Short tons daily) (Short tons less Food)	0.5293 0.0423	0.5482 0.0589	0.5667 0.07 54
Irregular & Local Force -]	00 Man Slice		
1110,000	<u>l in 30</u>	2 in 30	3 in 30
Food Equipment Weapons Ammunition	0.0974 0.0005 0.0007 0.0053	0.0979 0.0006 0.0008 0.0106	0.0983 0.0007 0.0010 0.0159
TOTAL (Short tons daily) (Short tons less Food)	0.1086	0.1146 0.0167	0.1207 0.0224

CARRIER CHARACTERISTICS



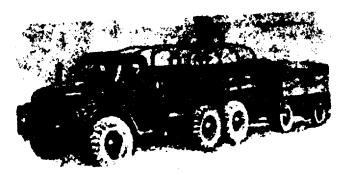
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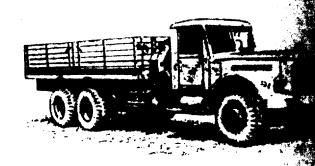
TRUCK 6X6 ZIL-157

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	26400	22000	33000	diesel	Sept.

* The truck most commonly ebserved in the Lastian Fanhandle. It is four wheel drive, Soviet and was designed for trueps and general carge.

Regular observation.

india.

Forter Recuirements:

1. Factors included:

- a. X porters to carry given load.
- b. L losses.
- c. R rest period allowance.
- d. x porters to carry rations.
- a. 1 losses.
- f. r rest period allowance.

2. Calculations:

b.
$$Z = (X + L) R$$
 where R is $7/6$ or $7/5$.

c.
$$x = \frac{Z \text{ times daily ration requirement.}}{Porter Capacity}$$

d.
$$(x+1)r = z = z + z$$
 times daily ration requirement. *

Porter Capacity

3. Example:

Compute the number of porters required to move 30,000 pounds of rice a distance of 81 miles over mountains using yokes and baskets.

Assumptions: A porter can carry 30 pounds, 9 miles per day by this method (see page 50).

Losses = 18 %.

A day of rest will be given to each porter. Porters require 3 punds of rice per day.

Calculations: X = (30,000)/(30) = 1000 porters

$$Z = (1000 = 180) (7/6) = 1218 \text{ porters.}$$

$$x = (1218)(3)/(30) = 122$$
 porters.

$$z = (122 + 22) (7/6) = 168$$
 porters.

Total requirement: 1218 + 185 = 1403 porters for 9 days.

^{* #} means in the order of magnitude of (or approximately)

lanning Figures

1. Perter using a yoke and 2 baskets:

Type load	r erindage	Lewlands mpd	Mountains mpd
Seft Geeds (rations)	55	. 15	
Soft Goods (rations)	30		9
Hard Goods (finme)	<i>L</i> ₄ <i>L</i> ₄	12	
Hard Goods (Ammo)	32		7

2. Ferter using a back pack:

Type Load	Peundage	<u>Lewlands</u> mpd	Meuntains mpd
Seft Seeds (rations)	86	15	
Hard Goods (Amms)	1,6		72

Speed of Movement (mph):

		<u>IIVN</u>	Lac	05	Camb	odia
	bay	Night	Day	Night	Day	Night
Vehicles:						
Lowlands .	18-24	9-12	10-16	5-8		
Mountains	9 – 15	5 - 8	5-11	3 - 6		
Forters and Attendants						
Lowlands	3	2	3	2	3	2
Mountains	2	1	2	1	2	1

Carrying Capacities:

<u>Garrier</u>	Capacity
Picrole	500 lbs
Magen, pushed	500 lbs
Wagen, pulled	500 lbs
Ox cart	500 lbs
Elephants	500 lbs
Water Buffale	250 lbs

Methods of Packaging and Transporting Supplies:

- 1. Hice: 220 lb bags or sacks
- 2. Mice: 22 to 33 lb tubes
- 3. Salt: same as rice
- 4. Ammunition: 50 lb wooden boxes
- 5. Fuel: 5 gal cans, 55 gal drums
- 6. Other foods: in sacks or bags of variuos sizes
- 7. Medicine: bottled or syrettes small enough to be hidden on a person
- 8. Chemicals: a. Saltpeter: 220 lb units
 - b. Sulphur: 110 to 220 lb units
 - c. Mercury: 22 lb units
 - d. Acid: liter bottles





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05-1357-66	05-0207-66 CMIC 1027
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09-1516-66	169/66
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09-2288-66	415/66
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10-2502-66	Studies of NLF of SV, file AG-406
09-2415-66	
06-1399-66	Ath MI Det, 4th Ini Div, Inc.
03-1261-66 08-1418-66	No. 11-66-33 4th MI Det, 4th Inf Div, Ind Inter Rept
05-0032-66	Mo. 11-66-31
09-1493-66	Mo. 11-00-71
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00000 00-1507-CC
CETC 10-2215-16
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